

1 Q. **Muskrat Falls to Happy Valley Interconnection, Volume II, Tab 13, Appendix A,**
2 **Eastern Labrador Transmission System – Planning Report, Section 5, Pages 7 - 19**

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4 For Options 4 and 5, which feature 2 single circuits from Muskrat Falls to Happy
5 Valley, is the existing 25 MW gas turbine at Happy Valley still required? Please
6 provide an estimate of the cumulative net present value of life cycle costs for
7 continued operation of the existing 25 MW gas turbine in service for the study
8 period.

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11 A. For Options 4 and 5, the existing 25 MW gas turbine at Happy Valley would not be
12 required to meet the needs of the Happy Valley-Goose Bay system as the second
13 transmission line would satisfy reliability concerns of the area. A detailed analysis
14 relating to the removal of the Happy Valley Gas Turbine and the resulting impact on
15 generating capacity and reserves within the Newfoundland and Labrador
16 Transmission Systems was beyond the scope of the investigation. These
17 considerations would be evaluated as part of an application for the second phase of
18 the interconnection.

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20 It is estimated that the cumulative net present value of the life cycle cost for
21 continued operation of the existing 25 MW gas turbine for the study period is \$21.3
22 million. These numbers were not included in any of the proposed options. The
23 calculated life cycle cost value included in this response assumes continued
24 operation to the same degree as it has been operated historically. Changes in
25 operational use of the unit will impact this cost; however, revised operational and
26 maintenance plans for this unit have not yet been determined.